

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. •	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/505,239	10/12/2004	Nadya I Tarasova	229694	1908		
	7590 12/28/2007 Γ& MAYER, LTD.		EXAM	INER		
TWO PRUDEN	NTIAL PLAZA, SUITE	KHANNA,	KHANNA, HEMANT			
180 NORTH S' CHICAGO, IL	TETSON AVENUE 60601-6731	ART UNIT	PAPER NUMBER			
,			1654			
,						
			MAIL DATE	DELIVERY MODE		
			12/28/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



UNITED STATES DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10505239	10/12/04	TARASOVA ET AL.	229694

LEYDIG, VOIT & MAYER, LTD. TWO PRUDENTIAL PLAZA, SUITE 4900 **180 NORTH STETSON AVENUE** CHICAGO, IL 60601-6731

EXAMINER

Marcela M. Cordero Garcia

ART UNIT PAPER

1654

20071215

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 C.F.R. § 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 C.F.R. § 1.821-1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

APPLICANT IS GIVEN ONE MONTH FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE SEOUENCE RULES, 37 C.F.R.. §§ 1.821-1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 C.F.R. § 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 C.F.R. § 1.136. In no case may an applicant extend the period for response beyond the six month statutory period. Direct the response to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the

Please direct all replies to the United States Patent and Trademark Office via one (1) of the following:

- Electronically submitted through EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual - ePAVE)
- Mailed to:

Mail Stop Sequence

Commissioner for Patents

P.O. Box 22313 1450

Alexandria, VA 22313 1450

Hand Carry, Federal Express, United Parcel Service or other delivery service to:

U.S. Patent and Trademark Office

Mail Stop Sequence

Customer Window

Randolph Building

401 Dulaney Street

Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Marcela M Cordero Garcia whose telephone number is (571) 272-2939. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Cecilia Tsang, whose telephone number is (571) 272-0562.

Marcela M Cordero Garcia Patent Examiner Art Unit 1654

	Application No.	Applicant(s)					
	10/505,239	Tarasova et al.					
Notice to Comply	Examiner	Art Unit	•				
	M M Cordero Garcia	1654					
NOTICE TO COMPLY WITH PROMPTS (P)		A FET ON IC CONT	E A INVINC				
NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING							
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES							
Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).							
The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):							
1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).							
2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).							
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).							
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."							
5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).							
6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).							
7. Other:							
Applicant Must Provide: ☑ An initial or substitute computer readable form (CRF) cop	by of the "Sequence Listing".						
An initial or substitute paper copy of the "Sequence Listing	g", as well as an amendment directing	ng its entry into the	specification.				
A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).							
For questions regarding compliance to these requirements, please contact:							
For Rules Interpretation, call (703) 308-4216 or (703) 308-2923 For CRF Submission Help, call (703) 308-4212 or 308-2923							
PatentIn Software Program Support							
Technical Assistance703-287-0200							
To Purchase PatentIn Software703-306-2600							
PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY							

		Application No. 10/505,239	Applicant(s) Tarasova et al.						
	Sequence Count Sheet	Examiner MM Cordero Garcia	Art Unit	1654					
DATE OF COUNT Mark only one space below									
	(CRFN) (CRF is unreadable; use CRF	F Diskette Problem Report)							
\boxtimes	(CRFD) (CRF does not comply; use N	Notice to Comply)							
	(CRFR) (CRF required but none subm	nitted; use Notice to Comply)							
	(bona fide) (second or subsequent letter to applicant reporting bona fide attempt to comply; use Notice to Comply and send copy of RSL)								
	(non bona fide) (second or subseque comply; use Notice to Comply and send		non-bona fide a	attempt to					
			,						

```
Sequence Listing could not be accepted.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: Thu Aug 02 17:20:00 EDT 2007
Reviewer Comments:
<210> 28
<211> 14
<212> PRT
<213> Artificial
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid
<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa = at position 13 is norleucine
<400>
       28
Phe Ala Leu Ala Glu Glu Glu Ala Tyr Gly Trp Xaa Asp Phe
                                    10
1
                5
The above <222> (13)..(13) response is incorrect: "Xaa" is not at
position 13, "Asp" is.
```

Validated By CRFValidator v 1.0.2

Application No:

10505239

Version No:

2.0

Input Set:

Output Set:

Started: 2007-07-30 18:17:35.343

Finished: 2007-07-30 18:17:36.501

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 158 ms

Total Warnings: 28

Total Errors: 0

No. of SeqIDs Defined: 28

Actual SeqID Count: 28

Err	or code	Error Descript	ion								
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(3)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(4)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(5)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(7)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(8)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(9)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(13)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(14)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(19)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(20)

Input Set:

Output Set:

Started: 2007-07-30 18:17:35.343

Finished: 2007-07-30 18:17:36.501

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 158 ms

Total Warnings: 28

Total Errors: 0

No. of SeqIDs Defined: 28

Actual SeqID Count: 28

Error code Error Description

This error has occured more than 20 times, will not be displayed.

SEQUENCE LISTING

```
<110> TARASOVA, Nadya I
      MICHEJDA, Christopher J
      DYBA, Marcin
      COHRAN, Carolyn
<120> CONJUGATES OF LIGAND, LINKER AND CYTOTOXIC AGENT AND RELATED
      COMPOSITIONS AND METHODS OF USE
<130> 229694
<140> 10505239
<141> 2004-10-12
<150> US 10/505,239
<151> 2004-10-12
<150> PCT/US03/06344
<151> 2003-02-27
<150> 60/360,543
<151> 2002-02-27
<150> 60/370,189
<151> 2002-04-05
<160> 28
<170> PatentIn version 3.4
<210> 1
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 1
Phe Ala Leu Ala
1
<210> 2
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 2
```

Val Leu Ala Leu Ala

```
<210> 3
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 3
Ala Leu Ala Leu
<210> 4
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 4
Ala Leu Ala Leu Ala
<210> 5
<211> 33
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 5
Leu Gly Pro Gln Gly Pro Pro His Leu Val Ala Asp Pro Ser Lys Lys
                                   10
Gln Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp
            20
                               25
Phe
```

<210> 6 <211> 4 <212> PRT

<213> Artificial Sequence

```
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa = at position 2 is norleucine
<400> 6
Trp Xaa Asp Phe
<210> 7
<211> 8
<212> PRT
<213> .Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa = at position 2 is sulfotyrosine
<400> 7
Asp Xaa Met Gly Trp Met Asp Phe
<210> 8
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa = at position 2 is sulfotyrosine
<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa = at position 3 is norleucine
<220>
<221> misc_feature
<222> (6)..(6)
```

```
<223> Xaa = at position 6 is norleucine
<400> 8
Asp Xaa Xaa Gly Trp Xaa Asp Phe
    5
<210> 9
<211> 27
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 9
Val Pro Leu Pro Ala Gly Gly Gly Thr Val Leu Thr Lys Met Tyr Pro
               5
                                 10
Arg Gly Asn His Trp Ala Val Gly His Leu Met
           20
                             25
<210> 10
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 10
Trp Ala Val Gly His Leu Met
<210> 11
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 11
Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
                                 10
<210> 12
<211> 8
```

<212> PRT

```
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (1)..(8)
<223> wherein the peptide is carboxylated at either the N-or C-
<400> 12
Phe Cys Phe Trp Lys Thr Cys Thr
<210> 13
<211> 11
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 13
Arg Pro Leu Pro Gln Gln Phe Phe Gly Leu Met
<210> 14
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 14
Pro Gly Thr Cys Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
                                 10
<210> 15
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic ,
<400> 15
```

Asn Asp Asp Cys Glu Leu Cys Val Ala Cys Thr Gly Cys Leu

5 10

```
<210> 16
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<400> 16
Asn Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Thr Gly Cys Phe
```

<210> 17 <211> 29 <212> PRT <213> Artificial Sequence <220>

<223> Synthetic

<400> 17

His Ser Asp Ala Leu Phe Thr Asp Asn Tyr Thr Arg Leu Arg Leu Gln 5 10

10

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn Gly . 20

<210> 18 <211> 29 <212> PRT <213> Artificial Sequence <220> <223> Synthetic

<220> <221> misc_feature <222> (17)..(17) <223> Xaa = at position 17 is norleucine <400> 18

His Ser Asp Ala Leu Phe Thr Asp Asn Tyr Thr Arg Leu Arg Leu Gln 5 10 15

Xaa Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn Gly

20

```
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa = at position 5 is norleucine
<400> 19
Ala Tyr Gly Trp Xaa Asp Phe
               5
<210> 20
<211> 10
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (8)..(8)
<223> Xaa = at position 8 is norleucine
<400> 20
Glu Glu Glu Ala Tyr Gly Trp Xaa Asp Phe
<210> 21
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa = at position 1 is 2-cyclohexyl-L-alanine
```

<210> 19

<400> 21

```
<210> 22
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa = at position 1 is 2-cyclohexyl-L-alanine
<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa = at position 2 is 2-cyclohexyl-L-alanine
<400> 22
Xaa Xaa Leu Ala Leu
<210> 23
<211> 5
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa = at position 1 is 1-naphtyl-alanine
<220>
<221> misc_feature
<222> (2)..(2)
<223> Xaa = at position 2 is 2-cyclohexyl-L-alanine
<400> 23
Xaa Xaa Leu Ala Leu
<210> 24
```

Xaa Leu Ala Leu Ala

<211> 5

```
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa = at position 1 is 1-naphtyl-alanine
<400> 24
Xaa Leu Ala Leu Ala
<210> 25
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa = at position 13 is norleucine
<400> 25
Val Leu Ala Leu Ala Glu Glu Glu Ala Tyr Gly Trp Xaa Asp Phe
              5
<210> 26
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (1)..(1)
<223> V = at position 1 is conjugated to SPA110
<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa = at position 13 is norleucine
```

```
<220>
<221> misc_feature
<222> (15)..(15)
<223> F = at position 15 comprises a C-terminal amide group
<400> 26
Val Leu Ala Leu Ala Glu Glu Ala Tyr Gly Trp Xaa Asp Phe
<210> 27
<211> 15
<212> PRT
<213> Artificial
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa = at position 1 is 2-cyclohexyl-L-alanine and is conjugated
      to HTI-286
<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa = at position 13 is norleucine
<220>
<221> misc_feature
<222> (15)..(15)
<223> F = at position 15 comprises a C-terminal amide group
<400> 27
Xaa Leu Ala Leu Ala Glu Glu Glu Ala Tyr Gly Trp Xaa Asp Phe
                                 10
<210> 28
<211> 14
<212> PRT
<213> Artificial
<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid
```

<220>

. . . .

<221> misc_feature <222> (13)..(13) <223> Xaa = at position 13 is norleucine

<400> 28

Phe Ala Leu Ala Glu Glu Glu Ala Tyr Gly Trp Xaa Asp Phe
1 5 10